

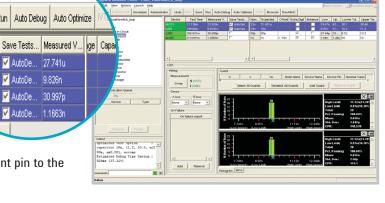


Ease of Use. The new point-and-click interface removes the user's need to type in commands during the operation of the tester. All commands are menu based, thus the user does not need to remember each command to be executed. This allows inexperienced users to start using the system quickly.

Board Locator. The Board Locator allows the user to search for any Run | Auto Debug | Auto Optimize component on the board under test as well as probes and Pass/Fail testhead resources. This tool is ✓ AutoDe... 27,741u Pass an enhancement over the find Pass ✓ AutoDe... pins command. This tool can AutoDe... 30.997p be used during the test debug ✓ AutoDe... 1.1663n process to identify the location of a failing component or the location of a probe on the fixture. Together with the handheld probe, the connectivity of a component pin to the tester can be checked quickly using this tool.

Test Development Improvements. The algorithm for test development has been improved. For resistors and capacitor tests, wires selection and test ptions selection has been improved such that they reduce the test times of these tests. It is possible for a typical board to see 20% improvements to the analog test time. The node sequencing in the shorts test has been recalculated to reduce the occurrence of phantom shorts.

Auto Optimizer. Agilent *Medalist* i3070 tests can be optimized with the click of a button, reducing test time by 10 to 50 percent per test. AutoOptimizer checks to see that tests are stable, and cleans up any conflicts in code to get a clean, smooth - running test. It's great for cleaning up programs that have been modified during production runs, allowing tests to once again run fast, clean and reliably.



AutoDebug. With the Agilent *Medalist* i3070, unpowered passive analog components can be debugged with the click of a button, so even someone with limited ICT experience can perform a complete analog test debug in a matter of hours. AutoDebug fine-tunes tests so boards pass reliably in production. It runs the selected test, captures measurement data, evaluates the data, adds or deletes measurement options, and compiles the tests. You set the rules, and AutoDebug does the rest.

Specifications

	Agilent <i>Medalist</i> i3070 Un-multiplexed	<u> </u>
Maximum channels	5184	1152
Maximum nodes	5184	5184
Pin Card	Un-multiplexed hybrid 144 channel	HybridPlus double density
Driver/receiver mux ratio	1:1 tester-per-pin	9:2 multiplexing
Vector application rate	6.25MPs	6MPs, 12MPs, 20MPs
Logic level	0 to 4.75V (Per Pin programmable)	-3.5V to 5V (Per Digital Channel pin programmable)
Logic threshold	Single threshold	Dual Threshold
Slew rate	300V/usec (Optimized fixed rise/fall time)	25V/usec to 275V/usec (per digital channel pin programmable)
Digital driver/Receiver offset	Not Applicable	-30n to +100n (per digital channel pin programmable)
Operating system	Windows XP	Professional
Test generation toolset	Time-to-money test development	Board Consultant Fixture Consultant Test Consultant
Board/Fixture graphics display	Browser	Browser Board Consultant Fixture consultant
Circuit analysis	Automatic (IPG) with Monte Carlo Simulation	
Agilent <i>Medalist</i> i3070 Application Software	Windows graphical user interface (support localization)	
Probe pin locator	Interactive probe/Pin locator with guided probed	
Runtime yield display	Real time FPY (First Pass Yield) display at runtime	
Probe/fixture maintenance tools	Worse probe reporting (Reports real time fixture probe number that fails frequently)	
Yield enhancement tool	IYET (Intelligent Yiel	d Enhancement Tool)
Analog unpowered debug interface	Graphical user interface in spread sheet format (support localization)	
Digital/Analog powered debug interface	PushButton Debug	
AutoDebug	AutoDebug on Analog unpowered tests, Testjet and VTEP v2.0 (VTEP, iVTEP and NPM)	
Modular construction for flexibility/ scalability	(1 to 4) Standard	
Dual-well construction for maximum throughput	Standard	
Throughput multiplier	Standard	
Failure message printer	Standard (strip printer)	
Vacuum solenoids	Built-in standard	
Input power connections	Included (specify type)	
Shipping and installation assistance	Included (Agilent authorized representative)	
Anolog unpowered measurement	2, 4, 6 wire measurement	
Backdriving current	750 mA	
Backdriving test program setup	Automatic b	y logic family

Overvoltage protection	Yes	
Capacitor discharge protection	Yes	
Arbitrary waveform generator	Yes	
Fixture types supported	Short wire, NoWire, long wire	
Repeatability	Excellent	
Transportability	Excellent	
Temperature compensation	AutoAdjust @ Every 5 degrees celsius temperature drift/1000 Hrs	

Standard Software and Firmware Features (included in base system)

	Agilent <i>Medalist</i> i3070 Un-multiplexed Agilent <i>Medalist</i> i3070 Multiplexed	
Open/short testing	Automatic IPG	
Analog testing	Yes	
Vector programming	VCL and PCF	
Vectorless testing	VTEP V2.0 and TestJet	
NAND tree program generator	Language based	
Disabling analysis	Automatic (IPG)	
Digital test pattern generator	Yes	
Frequency measurement	60 MHz	
	(Beyond 60Mhz measurement possible using fixture electronics solution)	
Multilevel disable (digital isolation)	Yes	
High-voltage testing capability	100V	
Low-voltage testing capability	No limit	
Number of analog guarding points	Unlimited	
Worst probe report	Yes	
First pass yield report	Yes	
Component-level coverage report	Yes	
Intelligent yield enhancement test	Yes	
Limited access tools	Yes	
Flash 70 device programming	Yes	
Polarity check software	Yes	
ICT Boundary Scan	Yes	
PanelTest for panelized PCBAs	Yes	
AwareTest	Yes	
Simplate express fixturing software	Yes	
No-wire fixture development software	Yes	
Standard i3070 operating system	Yes	
Multiple board versions software	Yes	
Dual-well sharing	Yes	
Throughput multiplier	Yes	
Relay-level diagnostics tool	1-year license	
SPC quality tool	Push-button Q-Stats	

Options

Software Products

Test development software bundle	Includes:	Flash ISP	
(stand alone)	Express fixturing	PLD ISP	Polarity check
	Multiple board versions	Advanced probe spacing	Throughput multiplier
	Drive thru	VTEP V2.0	Silicon nails
	Dual-Well sharing	TestJet	AwareTest
	Flash programming	InterconnectPlus	Panel test
	Magic test	Boundary scan	Flaash70
InterconnectPlus boundary scan	Advanced boundary scan tool suite		
Drive-thru for VTEP v2.0	Test development software for Vectorless Test Extended Performance tool		
CAMCAD for ICT	CAMCAD Translation software for ICT test and fixture development		
Flash ISP	In-system programming for flash memory devices		
PLD ISP	In-system programming for programmable logic devices		
ISP suite	Combined Flash and PLD in-system programming software suite		
ScanWorks	ScanWorks advanced boundary scan deployment tools		
Silicon nails	Test development tools for limited access test coverage		
Medalist repair tool	Automated product failure diagnostic and repair tool		
Magic test	Analog testing in a limited access environment		

Modules and Pin Cards

	Agilent <i>Medalist</i> i3070 Un-multiplexed	Agilent Medalist i3070 Multiplexed
Hybrid pin card	Un-multiplexed hybrid 144 channel	Hybrid plus double density Analog plus double density Access plus Hybrid 32 value series
Analog stimulus card	ASRU (Analog Stimulus Response Unit)	
Control card	Control XTP	
No. of modules supported	1 to 4 modules (Additional modules activation package to expand capabilities of systems having unused empty modules. Required additional hybrid card, Control XTP, ASRU card and associated cabling and hardware)	

DUT Power Supplies

	Agilent Medalist i3070 Un-multiplexed	Agilent <i>Medalist</i> i3070 Multiplexed
DUT power supplies type*	Agilent PS6751Quad	I Output (0-50V/0-5A)
	Agilent 6624 Quad Output (0-20V/0-2A, 0-7	7V/0-5A, 0-50.5V/0.0824A, 0-20.2V/0-2.06A)
	Agilent 6621A Dual Output (0-7V/0-10A, 0-20.2V/0-4.12A)
	Agilent 6634 Single	Output (0-100V/0-1A)
	Agilent 6642 Single	Output (0-20V/ 0-10A)
No. of supply channel	Up to 24 progra	mmable supplies

^{*} Refer to Agilent Medalist i3070 Test Method and Specifications for more detail.

Accessories

Bar code reader	For data entry of DUT board serial number
Pin verification fixture	For system diagnostics
Performance port	To add external signal capabilities to your i3070 system
Product support kits	Multiple optional kits to choose from
Consulting services	Multiple service options and products to choose from
User training	Multiple optional training programs to choose from

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Related Web Resouces

For more information on Agilent *Medalist* i3070 In-Circuit Test Platform, please visit: www.agilent.com/see/ict

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Product specifications and descriptions in this document subject to change without notice.

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